



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DA	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/982,243	82,243 10/16/2001		Ashish Prakash	005693.P006X	005693.P006X 8578	
48102	7590 11/17/2005		EXAMINER			
NETWORK APPLIANCE/BLAKELY				CHOUDHURY, AZIZUL Q		
12400 WILS	HIRE BLVD					
SEVENTH F	LOOR		ART UNIT	PAPER NUMBER		
LOS ANGELES, CA 90025-1030				2145		

DATE MAILED: 11/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
•		09/982,243	PRAKASH ET AL.				
Office Action Summary		Examiner	Art Unit				
		Azizul Choudhury	2145				
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period fo	• •						
WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS IN THE MAILING DANS IN THE MAILING DANS IN THE MAILING DANS IN THE MAILING THE MAILING DANS IN THE MAILING THE	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 26 Au	<u>igust 2005</u> .					
2a)	This action is FINAL . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)	Claim(s) 21-45 is/are pending in the application	1.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>21-45</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[]	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers	•					
9)	The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>12 February 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
-	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior	•	d in this National Stage				
* 0	application from the International Bureau	•					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen		. —					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) L Interview Summary Paper No(s)/Mail Da					
3) 🛛 Inforr	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 10/16/01.		atent Application (PTO-152)				

Detailed Action

This office action is in response to the correspondence received on August 26, 2005.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 21, 27, 34, 35, 40, 44, and 45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims now possess the newly amended phrase, "relative to each other." The term "relative" is indefinite and fails to distinctly point out to one skilled in the art, how the fields are to appear. Appropriate corrections are required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 21-45 are rejected under 35 U.S.C. 102(b) as being anticipated by Huckins (US Pat No: 5,612,898).

 With regards to claim 21, Huckins teaches a device to log information in a network cache, the device comprising: a user interface to allow a user to select a protocol, to select for logging some or all of a plurality of fields of the protocol that may be present in a messages to be received, and to specify a sequence in which the selected fields are to appear relative to each other in a log file; a first data structure for storing a value indicating a position in the user specified sequence for each selected field; a protocol independent log module to receive information from an application module, to store the information in a second data structure, and to store a reference to the information for each selected field stored in the second data structure in a location of a third data structure that corresponds to the position in the user-specified sequence for the corresponding field; and a log file wherein the information for each selected field from the second data structure is sequentially written using the reference from the third data structure (Huckins teaches a design that allows for a user to log protocol specific details (column 2, lines 21-30, Huckins). The monitoring by which the logging occurs is customizable by the user (column 2, liens 31-34, Huckins). The design also allows for the logging of only select, desired features (column 7, lines 7-23, Huckins). This includes the manner in which the monitored data is displayed (column 2, lines 31-41, Huckins). In addition, it is inherent that since data is being handled and managed, that data structures are used to store, transfer and manipulate data with. One such example of a data structure is the PDU (protocol data unit) (column 5, lines 16-40, Huckins)).

2. With regards to claim 22, Huckins teaches the device of claim 21, wherein the application module is protocol specific and obtains information for each selected field associated with the message (The Huckins design is protocol specific and provides protocol specific events (column 2, lines 21-31, Huckins). The display of the information is customizable (column 2, lines 31-41, Huckins)).

Page 4

- 3. With regards to claim 23, Huckins teaches the device of claim 21, wherein the user interface allows the user to create new fields in addition to the plurality of fields (Huckins' design allows for the select enabling and disabling of logging of desired features (column 6, line 25 column 7, line 23, Huckins). The data to be displayed is customizable (column 2, lines 31-41, Huckins)).
- 4. With regards to claim 24, Huckins teaches the device of claim 21, wherein each location in the first data structure is pre-initialized to contain a flag before the user-specified sequence is stored, the flag being utilized as an indicator that the user did not select that field for logging (The initialization of data structures is inherent. Without doing so, programs run the risk of contaminating the data stored within the data structure, during execution of the program. In addition, the Huckins' design allows for an initialization process to setup the design to monitor the designated traits (column 6, lines 12-24, Huckins)).

- 5. With regards to claim 25, Huckins teaches the device of claim 21, wherein the user interface is a graphical user interface (Huckins' design can be implemented in Windows™ (column 4, lines 49-61, Huckins)).
- 6. With regards to claim 26, Huckins teaches the device of claim 21, wherein the user interface is a command line interface (Huckins' design allows for the outputting of the data as text (column 5, lines 7-22, Huckins)).
- 7. With regards to claim 27, Huckins teaches a method of logging information in a network cache, the method comprising: providing a user interface to allow a user to select for logging some or all of a plurality of fields that may be present in a message to be received and to specify a sequence in which the selected fields are to appear relative to each other in a log file; storing in a first data structure a value indicating the position in the user-specified sequence of each selected field; in response to a message received over a network from a remote node, obtaining information for each selected field associated with the message and storing the information in a second data structure, in a sequence independent of the user-specified sequence, storing in a third data structure, based on the first data structure, a reference to the information for each selected field stored in the second data structure, including storing each reference in a location of the third data structure that corresponds to the position in the user-specified sequence of the corresponding field; and using the third data structure to output the

Application/Control Number: 09/982,243

Art Unit: 2145

information for each selected field in the second data structure to a log file, such that the information for each selected field appears in the log file according to the user-specified sequence (Huckins teaches a design that allows for a user, who is remote to the site being monitored to log protocol specific details (column 2, lines 21-30, Huckins). The monitoring by which the logging occurs is customizable by the user (column 2, liens 31-34, Huckins). The design also allows for the logging of only select, desired features (column 7, lines 7-23, Huckins). This includes the manner in which the monitored data is displayed (column 2, lines 31-41, Huckins). In addition, it is inherent that since data is being handled and managed, that data structures are used to store, transfer and manipulate data with. One such example of a data structure is the PDU (protocol data unit) (column 5, lines 16-40, Huckins)).

Page 6

- 8. With regards to claim 28, Huckins teaches the method of claim 27, wherein the user interface allows the user to create new fields in addition to the plurality of fields (Huckins' design allows for the select enabling and disabling of logging of desired features (column 6, line 25 column 7, line 23, Huckins). The data to be displayed is customizable (column 2, lines 31-41, Huckins)).
- 9. With regards to claim 29, Huckins teaches the method of claim 27, wherein the information for each field is converted to an ASCII representation and is of

variable length (Huckins allows the data to be displayed in ASCII (column 5, lines 17-22, Huckins)).

- 10. With regards to claim 30, Huckins teaches the method of claim 27, wherein each location in the first data structure is pre-initialized to contain a flag before the user-specified sequence is stored, the flag to be utilized as an indicator that the user did not select that field for logging (The initialization of data structures is inherent. Without doing so, programs run the risk of contaminating the data stored within the data structure, during execution of the program. In addition, the Huckins' design allows for an initialization process to setup the design to monitor the designated traits (column 6, lines 12-24, Huckins)).
- 11. With regards to claim 31, Huckins teaches the method of claim 27, wherein the second data structure and the third data structure are created to respond to logging for the message and destroyed once logging for the message is completed (It is inherent that since data is being handled and managed, that data structures are used to store, transfer and manipulate data with. One such example of a data structure is the PDU (protocol data unit) (column 5, lines 16-40, Huckins). Plus, it is also inherent that memory management means (creating and deleting data structures at the appropriate times) are applied to prevent crashing a computer due to using up all the available memory).

- 12. With regards to claim 32, Huckins teaches the method of claim 27, wherein the first data structure persists through logging for a plurality of messages received from remote nodes (It is inherent that since data is being handled and managed, that data structures are used to store, transfer and manipulate data with. One such example of a data structure is the PDU (protocol data unit) (column 5, lines 16-40, Huckins)).
- 13. With regards to claim 33, Huckins teaches the method of claim 27, wherein using the third data structure to output the information further comprises sequentially accessing the third data structure to read the position of the information corresponding to each selected field and accessing the second data structure to read information corresponding to each selected field at the position indicated by the reference (It is inherent that since data is being handled and managed, that data structures are used to store, transfer and manipulate data with. One such example of a data structure is the PDU (protocol data unit) (column 5, lines 16-40, Huckins).
- 14. With regards to claim 34, Huckins teaches a device for logging information in a network cache, the device comprising: a user interface to allow a user to select a protocol, to select for logging some or all of a plurality of fields of a message to be received mete rode, the fields corresponding to the selected protocol, and to specify a sequence in which the selected fields are to appear relative to each

other in a log file; a protocol specific application module to obtain information for each selected field associated with the message; a protocol independent log module to receive information for each selected field from the protocol specific application module and to store the information for each selected field in a log file in the sequence specified by the user (Huckins teaches a design that allows for a user to log protocol specific details (column 2, lines 21-30, Huckins). The monitoring by which the logging occurs is customizable by the user (column 2, lines 31-34, Huckins). The design also allows for the logging of only select, desired features (column 7, lines 7-23, Huckins). This includes the manner in which the monitored data is displayed (column 2, lines 31-41, Huckins)).

15. With regards to claim 35, Huckins teaches a device to log information in a network cache, the device comprising: a user interface to allow a user to select for logging some or all of a plurality of fields that may be present in a message from to be received, wherein the user is allowed to specify a sequence in which the selected fields are to be subsequently output in a log file relative to each other, and wherein the user-specified sequence of each selected field is stored in a first data structure; an application module to receive the message from the remote node, to access the first data structure to determine if a field is to be logged and the sequence in which the selected fields are to be stored in the log file, and to send information for each selected field associated with the message along with the sequence number for that field to a log module; a setup and

Application/Control Number: 09/982,243

Art Unit: 2145

destroy module to dynamically create and destroy a second data structure and a third data structure in response to requests from the application module; the log module to receive information corresponding with each selected field and the sequence of the information for each selected field from the application module, to store information corresponding with each selected field in the second data structure, and to store in the third data structure a reference to the position of information for each field in the second data structure, each reference being stored in a location of the third data structure corresponding to the user specified sequence of each selected field; an output module to sequentially access the third data structure to read the position of the ASCII representation of each selected field and to access the second data structure to read the ASCII representation of each selected field at the position indicated by the reference; and a log file wherein the information for each selected field from the second data structure is sequentially written using the reference in the third data structure (Huckins teaches a design that allows for a user to log protocol specific details (column 2, lines 21-30, Huckins). The monitoring by which the logging occurs is customizable by the user (column 2, liens 31-34, Huckins). The design also allows for the logging of only select, desired features (column 7, lines 7-23, Huckins). This includes the manner in which the monitored data is displayed (column 2, lines 31-41, Huckins). In addition, it is inherent that since data is being handled and managed, that data structures are used to store, transfer and manipulate data with. One such example of a data structure is the PDU (protocol

data unit) (column 5, lines 16-40, Huckins). Plus, Huckins allows the data to be displayed in ASCII (column 5, lines 17-22, Huckins). The data to be displayed is customizable (column 2, lines 31-41, Huckins)).

- 16. With regards to claim 36, Huckins teaches the device of claim 35, wherein the user interface allows the user to create new fields in addition to the plurality of fields (Huckins' design allows for the select enabling and disabling of logging of desired features (column 6, line 25 column 7, line 23, Huckins). The data to be displayed is customizable (column 2, lines 31-41, Huckins)).
- 17. With regards to claim 37, Huckins teaches the device of claim 35, wherein each location in the first data structure is pre-initialized to contain a flag before the user-specified sequence is stored, the flag being utilized as an indicator that the user did not select that field for logging (The initialization of data structures is inherent. Without doing so, programs run the risk of contaminating the data stored within the data structure, during execution of the program. In addition, the Huckins' design allows for an initialization process to setup the design to monitor the designated traits (column 6, lines 12-24, Huckins)).
- 18. With regards to claim 38, Huckins teaches the device of claim 35, wherein the user interface is a graphical user interface (Huckins' design can be implemented in Windows™ (column 4, lines 49-61, Huckins)).

- 19. With regards to claim 39, Huckins teaches the device of claim 35, wherein the user interface is a command line interface (Huckins' design allows for the outputting of the data as text (column 5, lines 7-22, Huckins)).
- 20. With regards to claim 40, Huckins teaches a method of logging information in a network cache, the method comprising: providing a user interface to allow a user to select for logging some or all of a plurality of fields that may be present in a message received and to specify a sequence in which the selected fields are to appear relative to each other in a log file; storing in a first data structure a value indicating a position in the user specified sequence for each selected field: receiving a message over a network from a remote node; creating a second data structure and a third data structure to correspond to the received message; examining the first data structure to determine which fields to extract; extracting information for each selected field from the message; obtaining an ASCII representation of the information for each selected field; placing the ASCII representation corresponding with each selected field in the second data structure; placing in the third data structure a reference to the position of each ASCII representation of each selected field in the second data structure, wherein each reference is stored in a location of the third data structure corresponding to the position in the user specified sequence of the corresponding field in said subset; sequentially accessing the third data structure to read the position of the

ASCII representation of each selected field and accessing the second data structure to read the ASCII representation of each selected field at the position indicated by the reference; writing to the log file the ASCII representation of each selected field from the second data structure as each ASCII representation is sequentially accessed using the reference in the third data structure; and removing the second data structure and the third data structure (Huckins teaches a design that allows for a user to log protocol specific details (column 2, lines 21-30, Huckins). The monitoring by which the logging occurs is customizable by the user (column 2, liens 31-34, Huckins). The design also allows for the logging of only select, desired features (column 7, lines 7-23, Huckins). This includes the manner in which the monitored data is displayed (column 2, lines 31-41, Huckins). In addition, it is inherent that since data is being handled and managed, that data structures are used to store, transfer and manipulate data with. One such example of a data structure is the PDU (protocol data unit) (column 5, lines 16-40, Huckins). Plus, Huckins allows the data to be displayed in ASCII (column 5, lines 17-22, Huckins). The data to be displayed is customizable (column 2, lines 31-41, Huckins)).

21. With regards to claim 41, Huckins teaches the method of claim 40, wherein the user interface allows the user to create new fields in addition to the plurality of fields (Huckins' design allows for the select enabling and disabling of logging of

desired features (column 6, line 25 – column 7, line 23, Huckins). The data to be displayed is customizable (column 2, lines 31-41, Huckins)).

- 22. With regards to claim 42, Huckins teaches the method of claim 40, wherein the information for each field is converted to an ASCII representation and is of variable length (Huckins allows the data to be displayed in ASCII (column 5, lines 17-22, Huckins)).
- 23. With regards to claim 43, Huckins teaches the method of claim 40, wherein each location in the first data structure is pre-initialized to contain a flag before the user-specified sequence is stored (The initialization of data structures is inherent. Without doing so, programs run the risk of contaminating the data stored within the data structure, during execution of the program. In addition, the Huckins' design allows for an initialization process to setup the design to monitor the designated traits (column 6, lines 12-24, Huckins)).
- 24. With regards to claim 44, Huckins teaches a device for logging information in a network cache, the device comprising: means for providing a user interface to allow a user to select for logging some or all of a plurality of fields that may be present in a message to be received and to specify a sequence in which the selected fields are to appear relative to each other in a log file; means for storing in a first data structure a value indicating a position in the user-specified

sequence for each selected field; means for receiving a message over a network from a remote node; means for creating a second data structure and a third data structure to correspond to the received message; means for examining the first data structure to determine which fields to extract; means for extracting information for each selected field from the message; means for obtaining an ASCII representation of the information for each selected field; means for placing the ASCII representation corresponding with each selected field in the second data structure; means for placing in the third data structure a reference to the position of each ASCII representation of each selected field in the second data structure, wherein each reference is stored in a location of the third data structure corresponding to the user specified sequence of each field in the subset; means for sequentially accessing the third data structure to read the position in the user-specified sequence of the ASCII representation of each selected field, and for accessing the second data structure to read the ASCII representation of each selected field at the position indicated by the reference; means for writing to the log file the ASCII representation of each selected field from the second data structure as each ASCII representation is sequentially accessed using the reference in the third data structure; and means for removing the second data structure and the third data structure (Huckins teaches a design that allows for a user to log protocol specific details (column 2, lines 21-30, Huckins). The monitoring by which the logging occurs is customizable by the user (column 2. liens 31-34, Huckins). The design also allows for the logging of only select,

desired features (column 7, lines 7-23, Huckins). This includes the manner in which the monitored data is displayed (column 2, lines 31-41, Huckins). In addition, it is inherent that since data is being handled and managed, that data structures are used to store, transfer and manipulate data with. One such example of a data structure is the PDU (protocol data unit) (column 5, lines 16-40, Huckins). Plus, Huckins allows the data to be displayed in ASCII (column 5, lines 17-22, Huckins). The data to be displayed is customizable (column 2, lines 31-41, Huckins)).

25. With regards to claim 45, Huckins teaches a computer program embodied on a computer-readable medium representing sequences of instructions which, when executed by a processor cause the processor to perform a process comprising: providing a user interface to allow a user to select for logging some or all of a plurality of fields of a message to be received, the fields dependent upon a protocol used to convey the message, and to specify a sequence in which the selected fields are to appear relative to each other in a log file; storing in a first data structure a value indicating a position in the user-specified sequence for each selected field; in response to a message received over a network from a remote node, obtaining information for each selected field associated with the message and storing the information in a second data structure, in a sequence independent of the user specified sequence; storing in a third data structure, based on the first data structure, a reference to the information for each selected

field stored in the second data structure, including storing each reference in a location of the third data structure that corresponds to the position in the user-specified sequence of the corresponding field; and using the third data structure to output the information for each selected filed in the second data structure to a log file, such that the information for each selected field appears in the log file according to the user-specified sequence (Huckins teaches a design that allows for a user to log protocol specific details (column 2, lines 21-30, Huckins). The monitoring by which the logging occurs is customizable by the user (column 2, liens 31-34, Huckins). The design also allows for the logging of only select, desired features (column 7, lines 7-23, Huckins). This includes the manner in which the monitored data is displayed (column 2, lines 31-41, Huckins). In addition, it is inherent that since data is being handled and managed, that data structures are used to store, transfer and manipulate data with. One such example of a data structure is the PDU (protocol data unit) (column 5, lines 16-40, Huckins). Plus, Huckins allows the data to be displayed in ASCII (column 5, lines 17-22, Huckins). The data to be displayed is customizable (column 2, lines 31-41, Huckins)).

Remarks

The amendment received on August 26, 2005 has been carefully reviewed but is not deemed fully persuasive. In light of the newly amended material, a new search has

JASON CARDONE CRE AV2145

Art Unit: 2145

been performed. The search has yielded the Huckins prior art, which has been applied in a new office action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Azizul Choudhury whose telephone number is (571) 272-3909. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571) 272-3933. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AC